

Notice of Allowability

Application No.

09/399,109

Examiner

Duc T. Duong

Applicant(s)

HADAD, ZION

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/5/04.
2. ☒ The allowed claim(s) is/are 71-76; now renumbered 1-6, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 71-76 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or make obvious the steps of or means for **“control in each subscriber unit for correcting the transmit frequency responsive to the correction signals received from the base, so that the signals received at the base from each subscriber have a frequency corrected for that deviation, wherein said base station further includes means for transmitting Automatic Synchronization Control (ASC) signals to each subscriber, for correcting deviations in a transmit time of each subscriber, and wherein each subscriber further includes means for adjusting the transmit time therein responsive to said ASC signals, so that all the subscribers in an uplink channel will be received at the base during a same time window”**, when such control means is considered within the specific structure of the device recited in claim 71. The prior art of record fails to teach or make obvious the steps of or means for **“control in each subscriber unit for correcting the transmit frequency responsive to the correction signals received from the base, so that the signals received at the base from each subscriber have a frequency corrected for that deviation, wherein synchronization signals transmitted from the subscriber units further include a combination of CDMA modulation codes and OFDM coding/decoding means to achieve orthogonality between signals from various users in an uplink”**, when such control means is considered within the

Art Unit: 2616

specific structure of the device recited in claim 72. The prior art of record fails to teach or make obvious the steps of or means for **“OFDM decoding means in the base station comprising an FFT processor operating on an input channel and a transversal filter means that reduces a pulse widening because of a gap interval in the transmitter, wherein said base station further includes means for transmitting Automatic Synchronization Control (ASC) signals to the subscribers, for correcting deviations in a transmit time of each subscriber, so that all the subscribers in an uplink channel will be received at the base during a same time window”**, when such decoding means is considered within the specific structure of the device recited in claim 74. The prior art of record fails to teach or make obvious the steps of or means for **“OFDM decoding means in the base station comprising an FFT processor operating on an input channel and a transversal filter means that reduces a pulse widening because of a gap interval in the transmitter, wherein synchronization signals transmitted from the subscriber units further include a combination of CDMA modulation codes and OFDM coding/decoding means to achieve orthogonality between signals from various users in an uplink”**, when such decoding means is considered within the specific structure of the device recited in claim 75.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”


Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 571-272-3122. The examiner can normally be reached on M-F (9:00 AM-6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DD
DD



HUY D. VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600